Wataru Yamaguchi

List of Publications by Year
in descending order

29	389	759233 12	794594 19
papers	citations	h-index	g-index

29	29	29	357
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anisotropic Sm2Fe17N3 sintered magnets without coercivity deterioration. AIP Advances, 2016, 6, .	1.3	47
2	Depletion of CO oxidation activity of supported Au catalysts prepared from thiol-capped Au nanoparticles by sulfates formed at Auâ€“titania boundaries: Effects of heat treatment conditions on catalytic activity. Journal of Catalysis, 2010, 270, 234-241.	6.2	36
3	Cryogenic scanning tunneling microscopy/spectroscopy on the (001) surfaces of YBa2Cu3Oyepitaxial thin films. Journal of Applied Physics, 1994, 75, 5227-5232.	2.5	31
4	Structures and CO oxidation activities of size-selected Au nanoparticles in mesoporous titania-coated silica aerogels. Applied Catalysis A: General, 2009, 364, 143-149.	4.3	31
5	Possibility of high-performance Sm2Fe17N3 sintered magnets by low-oxygen powder metallurgy process. Journal of Magnetism and Magnetic Materials, 2020, 506, 166811.	2.3	23
6	Cryogenic scanning tunneling microscopy/spectroscopy on the (110) surfaces of YBa2Cu3Oy epitaxial thin films. Physica C: Superconductivity and Its Applications, 1995, 242, 277-282.	1.2	21
7	Reduction of N2 by supported tungsten clusters gives a model of the process by nitrogenase. Scientific Reports, 2012, 2, 407.	3.3	21
8	Geometries of small tungsten clusters. Chemical Physics, 2005, 316, 45-52.	1.9	20
9	Effects of nonmagnetic overlay metals on coercivity of Sm2Fe17N3 magnet powders. Journal of Magnetism and Magnetic Materials, 2020, 516, 167327.	2.3	14
10	Novel powder processing technologies for production of rare-earth permanent magnets. Science and Technology of Advanced Materials, 2021, 22, 150-159.	6.1	14
11	Fragmentation and ion-scattering in the low-energy collisions of small silver cluster ions (Agn+:â€‚n=1â^’4) with a highly oriented pyrolytic graphite surface. Journal of Chemical Physics, 2000, 113, 3808-3813.	3.0	13
12	Influences of microstructure on macroscopic crystallinity and magnetic properties of Sm-Fe-N fine powder produced by jet-milling. Journal of Alloys and Compounds, 2021, 869, 159288.	5.5	13
13	Role of Surface Iron Oxides in Coercivity Deterioration of Sm₂Fe₁₇N₃ Magnet Associated with Low Temperature Sintering. Materials Transactions, 2019, 60, 479-483.	1.2	12
14	Surface-Induced Dissociation of Small Carbon Cluster Negative Ions (Cn-, n = 5â^’12):â€‰ Correlation between the Dissociation Patterns and Stability of Fragment Ionâ^’Neutral Pairs. Journal of Physical Chemistry B, 1999, 103, 5500-5504.	2.6	11
15	Nitrogen adsorption on supported size-selected tungsten nanoclusters as studied by X-ray photoelectron and X-ray excited Auger electron spectroscopies. Chemical Physics Letters, 2003, 378, 521-525.	2.6	11
16	Metal-coated Sm2Fe17N3 magnet powders with an oxide-free direct metal-metal interface. Journal of Magnetism and Magnetic Materials, 2020, 498, 166101.	2.3	11
17	Low-Temperature Formation of Nitrous Oxide from Dinitrogen, Mediated by Supported Tungsten Nanoclusters. Journal of the American Chemical Society, 2007, 129, 6102-6103.	13.7	10
18	Reproducible superconducting gap on clean surfaces of BiSrCaCuO prepared by etching with a scanning tunneling microscope tip. Physica C: Superconductivity and Its Applications, 1998, 300, 26-32.	1.2	8

#	Article	IF	Citations
19	Size-dependent Catalytic Activity of Platinum Nanoparticles for Aqueous-phase Reforming of Glycerol. Chemistry Letters, 2014, 43, 313-315.	1.3	7
20	Mechanism of anomalous Î±-Fe formation from stoichiometric Sm2Fe17 jet-milled powder during post-pulverization annealing. Acta Materialia, 2021, 213, 116981.	7.9	7
21	Î´ and Ïƒ vs. Ï€ conflicting aromatic pentagonal ring of tungsten with a planar pentacoordinate carbon at the ring center. International Journal of Quantum Chemistry, 2010, 110, 1086-1091.	2.0	6
22	Activation of N2 by isolated small tungsten clusters at room temperature. Chemical Physics Letters, 2017, 667, 267-271.	2.6	5
23	Study of entropic characteristics of strongly correlated systems using VO2 as a model case. Physical Chemistry Chemical Physics, 2016, 18, 30824-30829.	2.8	4
24	Recent Research Trend in Powder Process Technology for High-Performance Rare-Earth Permanent Magnets. KONA Powder and Particle Journal, 2023, 40, 74-93.	1.7	4
25	Adsorption states of dinitrogen on small tungsten nanoclusters. Chemical Physics Letters, 2008, 455, 261-264.	2.6	3
26	A computational study on molecular adsorption states of nitrogen on a tungsten tetramer. Physical Chemistry Chemical Physics, 2009, 11, 943-949.	2.8	3
27	Coercivity Recovery Effect of Sm-Fe-Cu-Al Alloy on Sm2Fe17N3 Magnet. Journal of the Korean Physical Society, 2018, 72, 716-725.	0.7	2
28	Preparation of Electrocatalysts for Polymer Electrolyte Fuel Cell Cathodes From Au-Pt Core-Shell Nanoparticles Synthesized by Simultaneous Aqueous-Phase Reduction. Journal of Fuel Cell Science and Technology, 2013, 10, .	0.8	1
29	Novel Powder Processing Technologies for Production of Rare-earth Permanent Magnets. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2022, 69, S30-S37.	0.2	0